

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/120,044

1643

DATE: 09/09/98
TIME: 16:01:05

INPUT SET: S28508.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

(1) General Information:

- (i) APPLICANTS: MINETTI, CONCEICAO;
MICHON, FRANCIS;
PULLEN, JEFFREY K.;
POLDVINO-BODNAR, MARYELLEN;
LIANG, SHU-MEI;
TAI, JOSEPH Y.
- (ii) TITLE OF INVENTION: MODIFIED IMMUNOGENIC
PNEUMOLYSIN COMPOSITIONS AS VACCINES
- (iii) NUMBER OF SEQUENCES: 18
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
(B) STREET: 345 PARK AVENUE
(C) CITY: NEW YORK
(D) STATE: NEW YORK
(E) COUNTRY: USA
(F) ZIP: 10154
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: FLOPPY DISK
(B) COMPUTER: IBM PC COMPATIBLE
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: MICROSOFT WORD 97
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 09/120,044
(B) FILING DATE: 1998-07-21
(C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 60/053,306
(B) FILING DATE: 1997-07-21
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 60/073,456
(B) FILING DATE: 1998-02-02
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: DARRYL H. STEENSMA
(B) REGISTRATION NUMBER: 43,155

TC 1630 MAIL ROOM

APR 13 2000

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/120,044DATE: 09/09/98
TIME: 16:01:06

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APR 18 2000
TC 1600 MAIL ROOM

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54 (C) REFERENCE/DOCKET NUMBER: 1758-4036US2
55
56 (ix) TELECOMMUNICATION INFORMATION:
57 (A) TELEPHONE: (212) 758-4800
58 (B) TELEFAX: (212) 751-6849
59 (C) TELEX: 421792
60
61
62 (2) INFORMATION FOR SEQ ID NO:1:
63
64 (i) SEQUENCE CHARACTERISTICS:
65 (A) LENGTH: 1413
66 (B) TYPE: nucleic acid
67 (C) STRANDEDNESS: double
68 (D) TOPOLOGY: linear
69
70 (ii) MOLECULE TYPE: cDNA
71
72 (vi) ORIGINAL SOURCE:
73 (A) ORGANISM: S. pneumoniae
74
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
76
77 atggcaaata aagcagtaaa tgactttata ctagctatga 40
78
79 attacgataa aaagaaactc ttgacccatc agggagaaag 80
80
81 tattgaaaat cgtttcatca aagagggtaa tcagctaccc 120
82
83 gatgagtttg ttgttatcga aagaaagaag cggagcttgt 160
84
85 cgacaaatac aagtgatatt tctgtaacag ctaccaacga 200
86
87 cagtcgcctc tatcctggag cacttctcgt agtggatgag 240
88
89 accttgttag agaataatcc cactcttctt gcggtcgatc 280
90
91 gtgctccgat gacttatagt attgatttgc ctggtttggc 320
92
93 aagtagcgat agctttctcc aagtggaaga tcccagcaat 360
94
95 tcaagtgttc gcggagcggg aaacgatttg ttggctaagt 400
96
97 ggcataaaga ttatgggtcag gtcaataatg tcccagctag 440
98
99 aatgcagtat gaaaaaatca cggctcacag catggaacaa 480

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/120,044DATE: 09/09/98
TIME: 16:01:08

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100		
101		
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106		
107		
108	ctcaagggtca agtttggttc tgactttgaa aagacagggga	520
109		
110	attctcttga tattgatttt aactctgtcc attcaggcga	560
111		
112	aaagcagatt cagattgtta attttaagca gatttattat	600
113		
114	acagtcagcg tagacgctgt taaaaatcca ggagatgtgt	640
115		
116	ttcaagatac tgtaacggta gaggatttaa aacagagagg	680
117		
118	aatttctgca gagcgctcctt tggctctatat ttcgagtgtt	720
119		
120	gcttatgggc gccaaagtcta tctcaagttg gaaaccacga	760
121		
122	gtaagagtga tgaagtagag gctgcttttg aagctttgat	800
123		
124	aaaaggagtc aaggtagctc ctacagacaga gtggaagcag	840
125		
126	attttggaca atacagaagt gaaggcgggtt attttagggg	880
127		
128	gcgacccaag ttcgggtgcc cgagttgtaa caggcaaggt	920
129		
130	ggatatggta gaggacttga ttcaagaagg cagtcgcttt	960
131		
132	acagcagatc atccaggctt gccgatttcc tatacaactt	1000
133		
134	cttttttacg tgacaatgta gttgcgacct ttcaaaatag	1040
135		
136	tacagactat gttgagacta aggttacagc ttacagaaac	1080
137		
138	ggagatttac tgctggatca tagtggtgcc tatgttgccc	1120
139		
140	aatattatat tacttggaat gaattatcct atgatcatca	1160
141		
142	aggtaaggaa gtcttgactc ctaaggcttg ggacagaaat	1200
143		
144	gggcaggatt taacggetca ctttaccact agtattcctt	1240
145		
146	taaaaggga tggtcgtaat ctctctgtca aaattagaga	1280
147		
148	gtgtaccggg cttgcttggg aatgggtggcg tacggtttat	1320
149		
150	gaaaaaacgg atttgccact agtgcgtaag cggacgattt	1360
151		
152	ctatttgggg aacaactctc tatccgcagg tagaagataa	1400

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/120,044DATE: 09/09/98
TIME: 16:01:09

INPUT SET: S28508.raw

153
154
155
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161 ggtagaaaat gac 1413
162
163
164 (2) INFORMATION FOR SEQ ID NO:2:
165
166 (i) SEQUENCE CHARACTERISTICS:
167 (A) LENGTH: 1413
168 (B) TYPE: nucleic acid
169 (C) STRANDEDNESS: double
170 (D) TOPOLOGY: linear
171
172 (ii) MOLECULE TYPE: cDNA
173
174 (vi) ORIGINAL SOURCE:
175 (A) ORGANISM: S. pneumoniae
176
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
178
179 atggcaaata aagcagtaaa tgactttata ctagctatga 40
180
181 attacgatan aaanaaaactc ttgacccatc agggagaaaag 80
182
183 tattgaaaat cgtttcanca aagagggtaa tcagctaccc 120
184
185 gntgagtttg ttgntancga aagaaagaag cggagcttgt 160
186
187 cgacaaatac aagtgatatt nctgtancag ctaccnacga 200
188
189 cagtcgcctc tatcctggag cacttctcgt agtggatgag 240
190
191 accttgtnag agaataatcc cactcttctt gcggtngatc 280
192
193 gtgctccgat gacttatagt antgntttgc ctggtttggc 320
194
195 aagtagcgat agctttctcc aagtggaaga ncccagcaat 360
196
197 tcaagtgttc gcggagcggn anacgatttg ttggctaagt 400
198
199 ggcatacaaga ttatggtcag gtcaataatg tcccagctag 440
200
201 aangcagtat gaaaaaatna cggctcacag catggaacaa 480
202
203 ctcaagggtca agtttggttc tgactttgaa aagncaggga 520
204
205 attctcttga tattgatttt aactctgtcc attcaggnga 560

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/120,044DATE: 09/09/98
TIME: 16:01:11

INPUT SET: S28508.raw

206		
207		
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211		
212		
213		
214	aaagcngatt cagattgtta atnttaagca gatttattat	600
215		
216	acagtcagcg tagacgctgt taaaaatcca ggagatgtgt	640
217		
218	ttcaagatac tgtaacggta gaggatttaa aacagagagg	680
219		
220	aatttctgca gagcgtcctt tggctatat ttcgagngtt	720
221		
222	gcttatgggc gccaaagtcta tctcaagttg gaaaccacga	760
223		
224	gtangagtgn tgaagtagag gctgcttttg aagctttgat	800
225		
226	aaaaggagtc aaggtagctc ctcagacaga gtggaagcag	840
227		
228	attttgaca atacagaagt gaaggcgggtt attttagggg	880
229		
230	gcgaccgaag ttcgggtgcc cgagttgtaa caggcaaggt	920
231		
232	ggatatggta gaggacttga ttcaagaagg cagtcgcttt	960
233		
234	acagcagatc atccaggctt gccgatttcc tatacaactt	1000
235		
236	cttttttacg tgacaatgta gttgcgacct ttcaaaanag	1040
237		
238	tacagactat gttgagacta aggttacagc ttacagaaac	1080
239		
240	ggagatttac tgctggatca tagtgggtgcc tatgttgccc	1120
241		
242	aatattatat tacttggnat gaattatcct atgatcatca	1160
243		
244	aggtaaggaa gtcttgactc ctaaggcttg ggacagaaat	1200
245		
246	gggcaggatt tnacggctca ctttaccact agtattcctt	1240
247		
248	taaaagggaa tgttcgtaat ctctctgtca aaattagaga	1280
249		
250	gtgtaccggg cttgcntggg aatggtggcg tacggtttat	1320
251		
252	gaaaaaaccg atttgccact agtgcgtaag cggacgattt	1360
253		
254	ctatttgggg aacaactctc tatccncagg tagangataa	1400
255		
256	ggtagaaaat gac	1413
257		
258		

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/120,044

DATE: 09/09/98
TIME: 16:01:13

INPUT SET: S28508.raw

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Original Text